

CLAIMS

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1. A multi-mode wireless communications handset, comprising:
a first transceiver having a first receiver, the first receiver is a
continuous reception mode receiver;
a first antenna coupled to the first receiver;
a second transceiver having a second receiver;
a second antenna coupled to the second receiver,
the multi-mode wireless communication handset for operating the
first receiver in a continuous reception mode and for simultaneously operating the
second receiver in a receive mode while the first receiver is operating in the
continuous reception mode.

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2. The multi-mode wireless communications handset of Claim 1, the
first transceiver having a corresponding first transmitter, the second transceiver
having a corresponding second transmitter, the first and second transmitters
connectable to one of the first and second antennas.

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3. The multi-mode wireless communications handset of Claim 2, the
first and second transmitters coupled to the second antenna.

4. The multi-mode wireless communication device of Claim 1, the
first receiver is a CDMA receiver, the first transceiver has a CDMA transmitter.

5 5. The multi-mode wireless communication handset of Claim 2, the first antenna is an internal antenna, the first transmitter coupled to the second antenna, the second antenna is an external antenna.

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10 6. The multi-mode wireless communication handset of Claim 4, the second receiver is a TDMA receiver, the second transceiver has a TDMA transmitter, a switch coupling the first and second transmitters and the second receiver to the second antenna.

15 7. The multi-mode device of Claim 1, a processor coupled to the first and second transceivers, a display and input/outputs coupled to the processor, a video device coupled to the processor.

20 8. A multi-mode wireless communications handset, comprising:
a first transceiver having a first receiver, the first receiver is a continuous reception mode receiver;
a first antenna coupled to the first receiver;
a second transceiver having a second transmitter;
a second antenna coupled to the second transmitter,
25 the multi-mode wireless communication handset for operating the first receiver in a continuous reception mode and for simultaneously operating the

second transmitter in a transmit mode while the first receiver is operating in the continuous reception mode.

5 9. The multi-mode wireless communication handset of Claim 8, the first receiver is CDMA receiver operating in a continuous mode, the second transmitter is a TDMA transmitter that transmits while the CDMA receiver operates in the continuous mode.

10 10. A method in a multi-mode wireless communications device having a first transceiver and a second transceiver, comprising:

 receiving a first signal with a first receiver of the first transceiver operating in a continuous reception mode,

 the first receiver coupled to a first antenna;

 receiving a second signal with a second receiver of the second transceiver at the same time the first receiver is receiving the first signal,

 the second receiver coupled to a second antenna different than the first antenna.

20 11. The method of Claim 10,

 receiving an uncompressed downlink first signal with the first receiver;

25 receiving the second signal with the second receiver operating in a non-continuous reception mode at the same time the first receiver is receiving the uncompressed downlink first signal.

12. The method of Claim 10,
the first receiver is CDMA receiver, the second receiver is a GSM
receiver,
5 receiving an uncompressed downlink signal with the CDMA
receiver;
 receiving a downlink signal with the GSM receiver at the same time
the CDMA receiver is receiving the uncompressed downlink first signal.

13. The method of Claim 10,
the first receiver is CDMA receiver, the second receiver is a TDMA
receiver,
15 receiving an uncompressed downlink signal with the CDMA
receiver;
 receiving a downlink signal with the TDMA receiver at the same
time the CDMA receiver is receiving the uncompressed downlink first signal.

20 14. The method of Claim 10,
receiving a first uncompressed downlink signal with the first
receiver;
 receiving a second uncompressed downlink signal with the second
receiver operating in a continuous reception mode at the same time the first
25 receiver is receiving the uncompressed downlink first signal.

15. The method of Claim 10, the first transceiver includes a first transmitter, the second transceiver includes a second transmitter, connecting the first transmitter and the second transmitter to one of the first and second antennas.

16. A method in a multi-mode wireless communications device having a first transceiver and a second transceiver, comprising:

receiving a first signal with a first receiver of the first transceiver operating in a continuous reception mode,

the first receiver coupled to a first antenna;

transmitting a second signal with a second transmitter of the second transceiver at the same time the first receiver is receiving the first signal,

the second transmitter coupled to a second antenna different than the first antenna.

17. The method of Claim 16, receiving an uncompressed downlink signal with the first receiver, transmitting the second signal with the second transmitter at the same time the first receiver is receiving the first uncompressed downlink signal.

18. The method of Claim 17, the first receiver is CDMA receiver, the second transmitter is a TDMA transmitter, receiving the uncompressed downlink signal with the CDMA receiver, transmitting the second signal with the TDMA transmitter at the same time the CDMA receiver is receiving the uncompressed downlink signal.

19. The method of Claim 18, the TDMA transmitter is a multi-band TDMA transmitter, transmitting in any band of the TDMA transmitter at the same time the CDMA receiver is receiving the uncompressed downlink signal.

20. A method in a multi-mode wireless communications device having a first transceiver and a second transceiver, comprising:

transmitting a first signal with a first transmitter of the first transceiver operating in a continuous transmission mode,
the first transmitter coupled to a first antenna;
receiving a second signal with a second receiver of the second transceiver at the same time the first transmitter is transmitting the first signal,
the second receiver coupled to a second antenna different than the first antenna.

21. The method of Claim 20,
the first transmitter is CDMA transmitter, the second receiver is a TDMA receiver,
transmitting an uplink signal with the CDMA transmitter;
receiving the second signal with the TDMA receiver at the same time the CDMA transmitter is transmitting the uplink signal.

22. The method of Claim 20,

transmitting an uncompressed uplink signal with a first transmitter
operating in a continuous transmit mode;

receiving the second signal with the second receiver at the same time
the first transmitter is transmitting the uncompressed uplink first signal.

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23. The method of Claim 20, the first transmitter is CDMA
transmitter, the second receiver is a TDMA receiver,

transmitting a compressed uplink signal with the CDMA transmitter;

receiving the second signal with the TDMA receiver at the same time
the CDMA transmitter is transmitting the compressed uplink signal.

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